

# HELIO WEATHER APP

Minimalist Real-Time Weather Application

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Portfolio Presentation





## Overview

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# Overview

## Helio Weather App's goal:

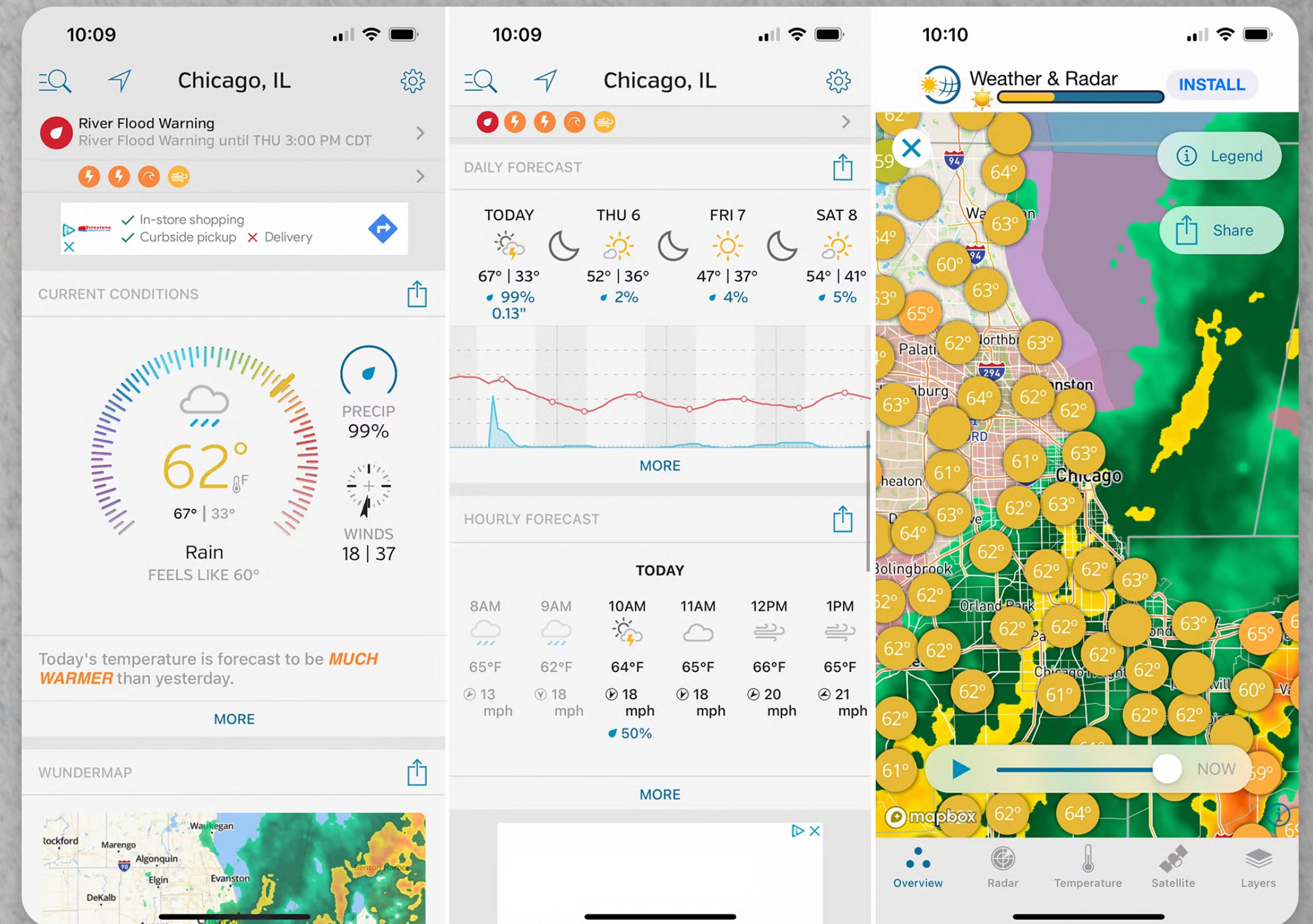
Our App provides real-time weather updates and emergency notifications through an engaging and accessible user interface. The goal of this presentation is to demonstrate how user feedback and iterative design shaped the final product, enhancing usability and visual appeal.





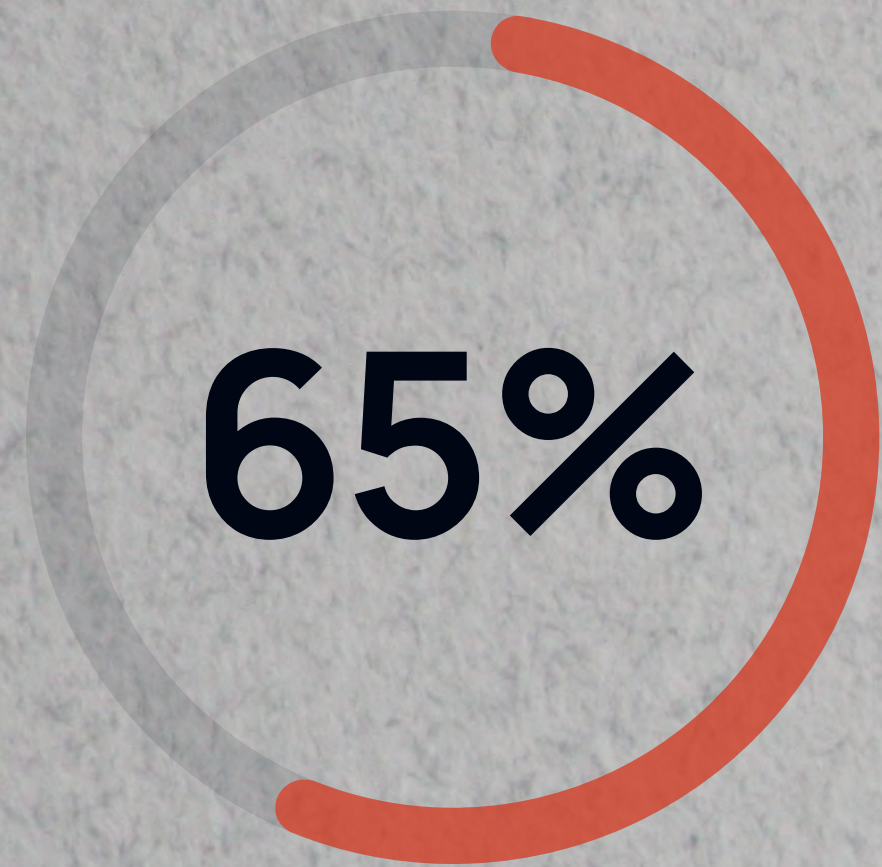
# Problem Statement

The problem centers around existing weather apps being cluttered, difficult to navigate, and not providing timely emergency notifications. Users like commuters and outdoor enthusiasts need a weather app that provides accurate, real-time data with minimal interface distractions.





## The Pain Points



..reported frustration with the cluttered interface of existing weather apps.

## Problem Statistics



..reported wanting timely emergency alerts, specifically during commutes or outdoor activities.

Based on the data, we streamlined the app's interface with a minimalist design to reduce clutter and enhance accessibility. Our plan focused on integrating the **15-minute emergency** notification system and improving icon size and spacing for better usability. We also added **route-specific weather forecasts** for more personalized and timely updates.



# Our Design Process

## Key Personas:



### **Emily** (Commuter):

Needed real-time alerts during her daily commute.

We used Emily's persona to create the 15-minute emergency notification system for real-time weather updates during commutes, ensuring she could make safer decisions based on immediate weather changes



### **John** (Outdoor Enthusiast):

Required detailed forecasts to plan outdoor activities.

For John, we incorporated animated weather patterns and extended forecasts, allowing him to plan outdoor trips by seeing possible weather conditions far in advance



# Research Methodology

## Data Collection Strategies

### Competitive Analysis:

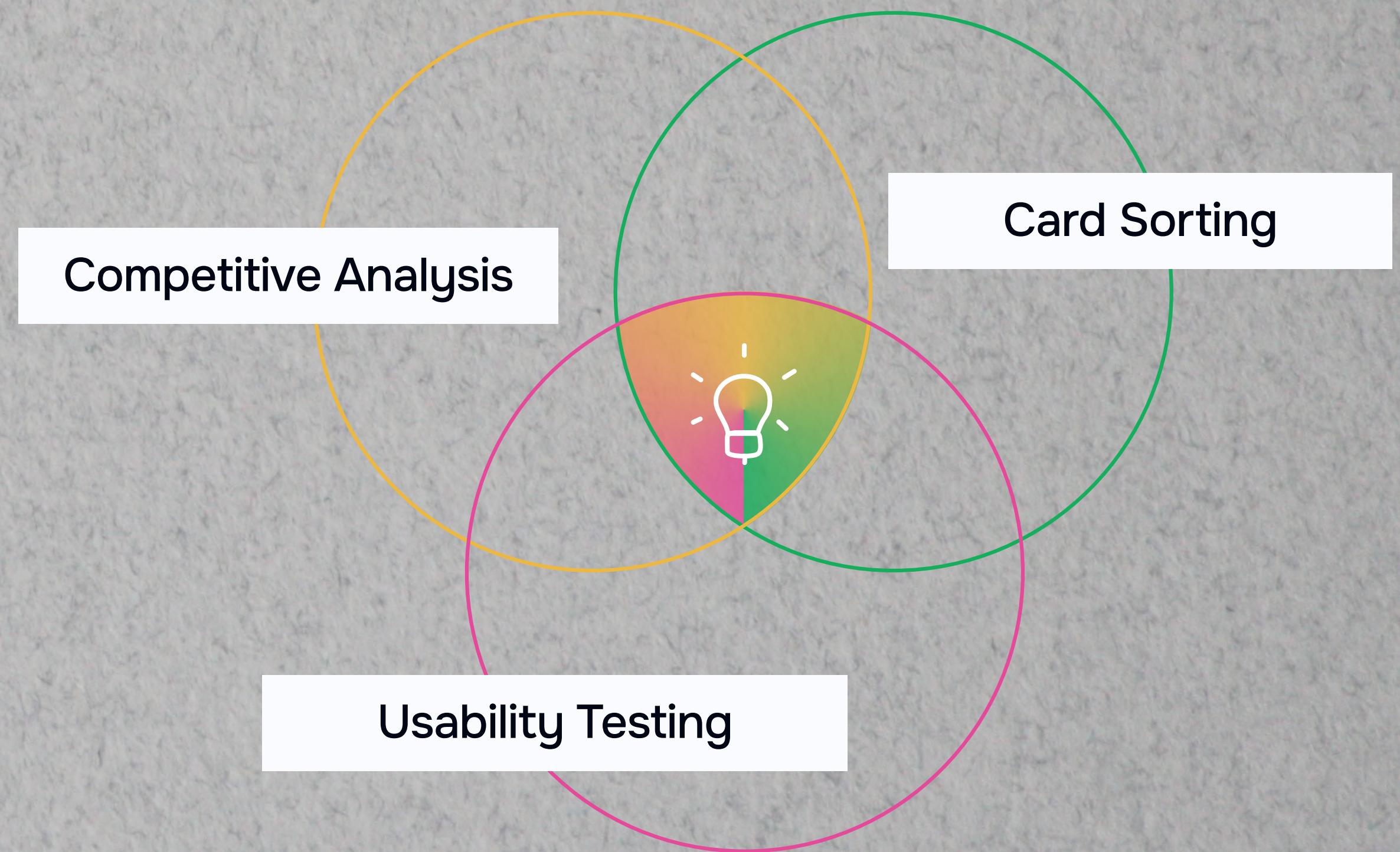
A review of existing weather apps (like AccuWeather and Dark Sky) was done to identify gaps and areas for improvement

### Card Sorting:

This method helped organize app features based on user preferences, leading to a more intuitive navigation structure

### Usability Testing:

Multiple rounds of testing were done on prototypes to identify issues in navigation, icon sizing, and clarity of notifications





# Usability Charts

Name:	Rob	Gloria	Talon	Hilda	Nathan	Erin
Age Range:	40-50	50-60	18-30	60-70	30-40	50-60
Gender:	Male	Female	Male	Female	Male	Female
Role:	Programmer	Data Analysis	College Student	Management	Startup Owner	Business Owner
Characteristic:	Very familiar with Tech	Familiar with Tech	Very Familiar with Tech	Not well versed with Tech	Very Familiar with Tech	Somewhat Familiar with Tech
Participant #:	P1	P2	P3	P4	P5	P6

Observations - What are people doing, thinking, and feeling?	P1	P2	P3	P4	P5	P6
Observation 1 - Felt confused and didn't know where to go to check the current temperature (Task 1)						
Observation 2 - Overlooked the top scroll bar for selecting weather metrics						
Observation 3 - Gaze was drawn to the central elements of the screen						
Observation 4 - Felt confused and didn't know where to go to set location preferences (Task 2)						
Observation 5 - Didn't understand what "Track your weather with precision" meant						
Observation 6 - Felt confused and didn't know where to go to check route safety (Task 3)						
Observation 7 - Was drawn to the location settings when looking for weather metrics						
Observation 8 - Felt confused and didn't know where to go to enable emergency weather alerts (Task 4)						

Users were confused about where to check the temperature, so we made the display more clear.

Users overlooked the top scroll bar, so we added visual cues to make it more noticeable.

The phrase "Track your weather with precision" was unclear, so we added explanatory hover text.

Users didn't know how to check route safety, so we made the feature more visible. via car iconography in the toolbar.



## Constraints



### Technical Constraints:

Integrating real-time weather data and animations without compromising performance is a challenge

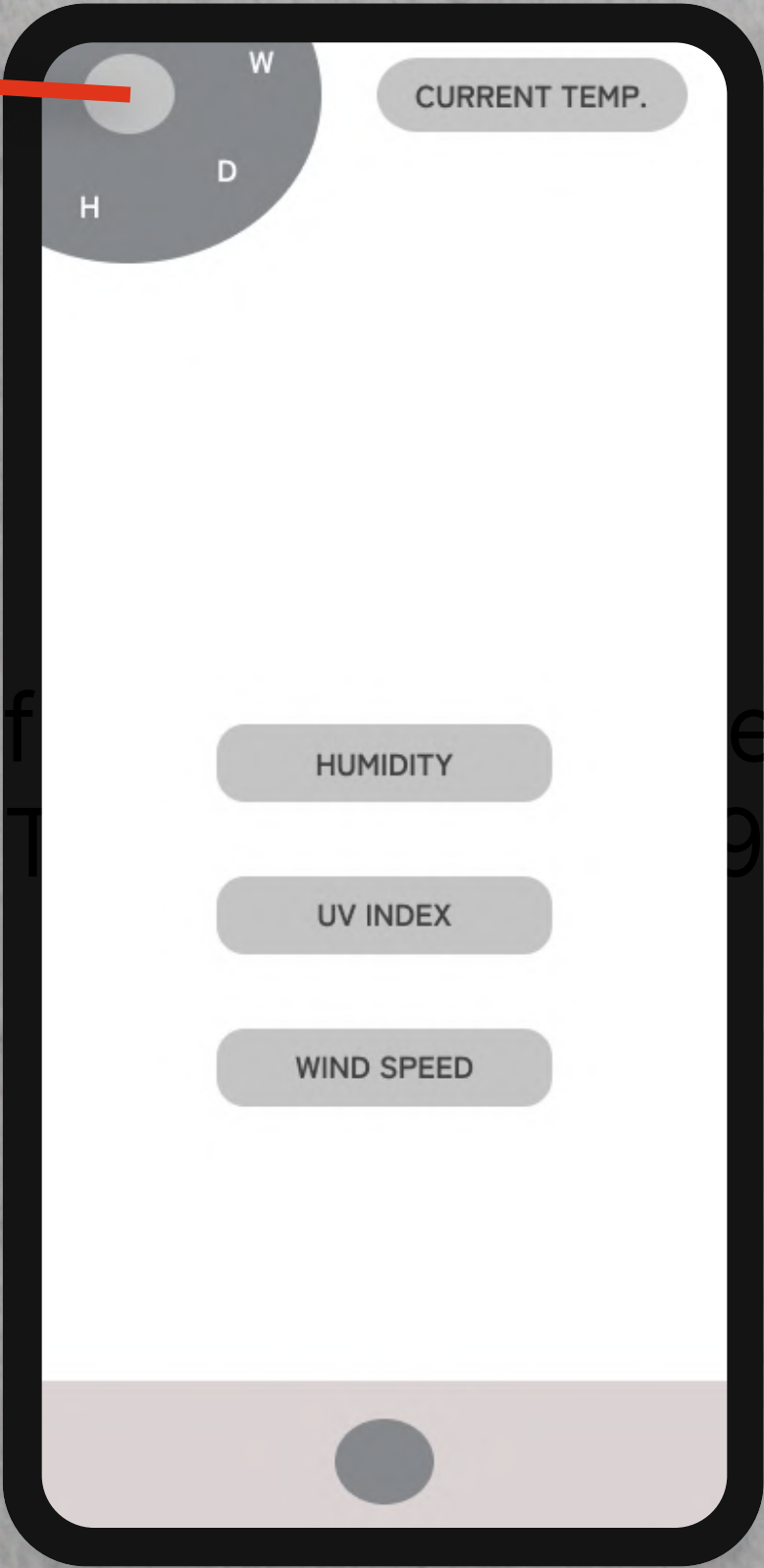
### User Interface Constraints:

Maintaining a minimalist design while ensuring all critical information was easily accessible posed design challenges



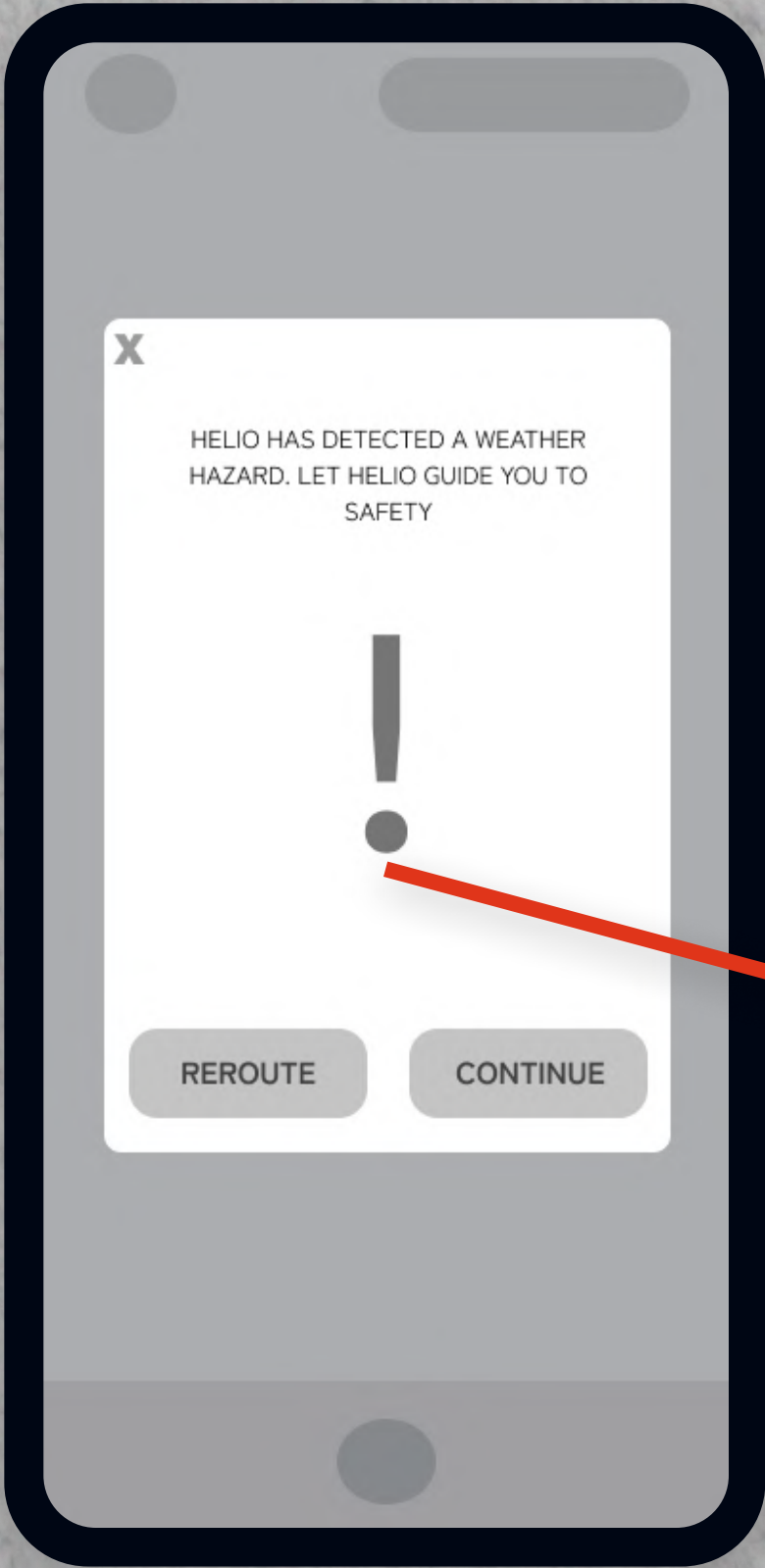
# Mid-Fid Prototype Experience

Home Screen

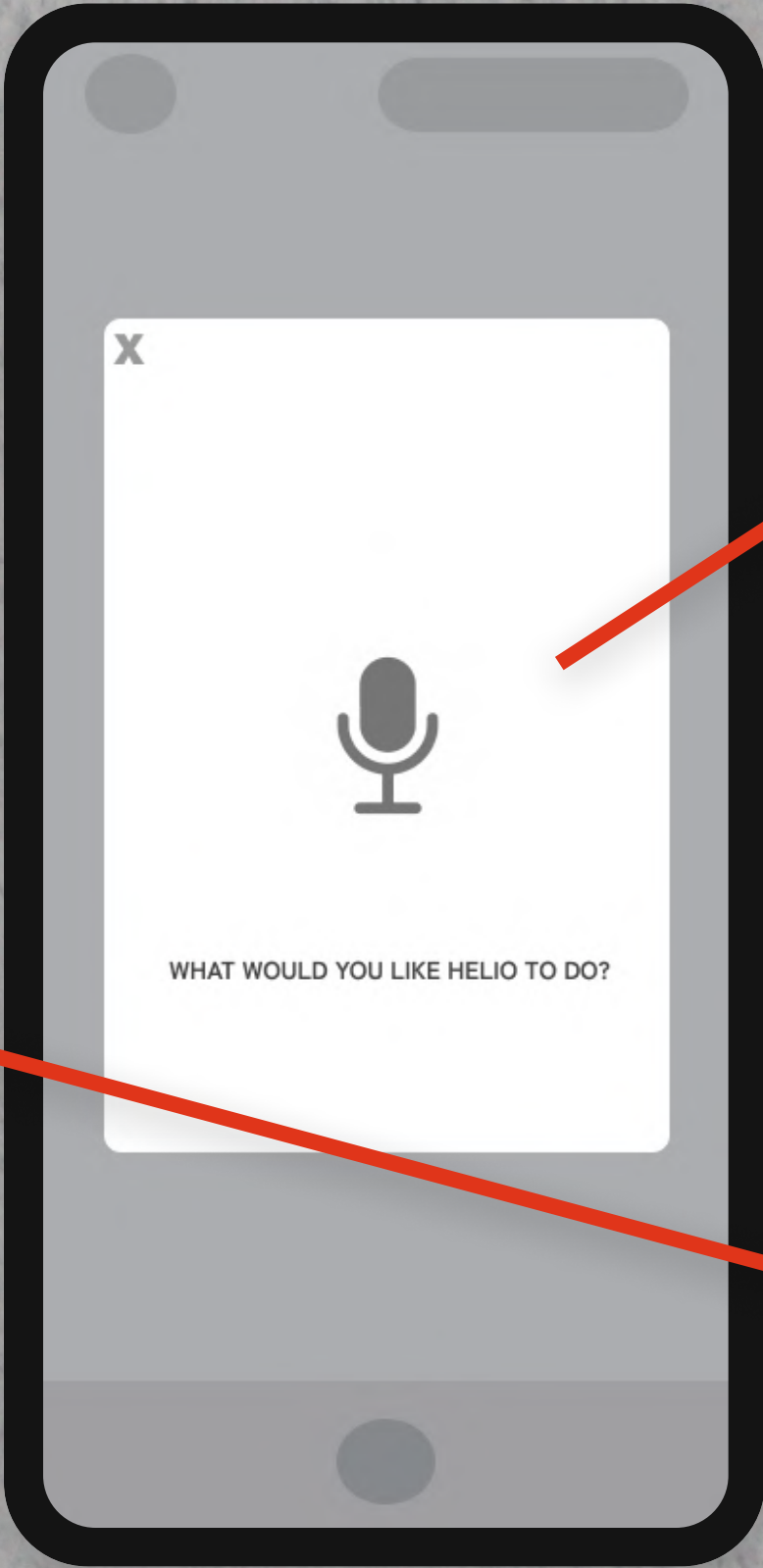


Initial prototypes included hidden dropdown fan menu

Realtime Warnings



Voice Commands



Voice commands were added to instruct in realtime while driving

Though no timeframe was established, hazard based reroute warnings were incorporated as a pop-up



**Here are the features we enhanced in the new version!**

Emergency Alerts

Icon Size

Animations

Route Forecasts

Overlay Fix

Alert to SOS

Location Pref.

Visual Cues

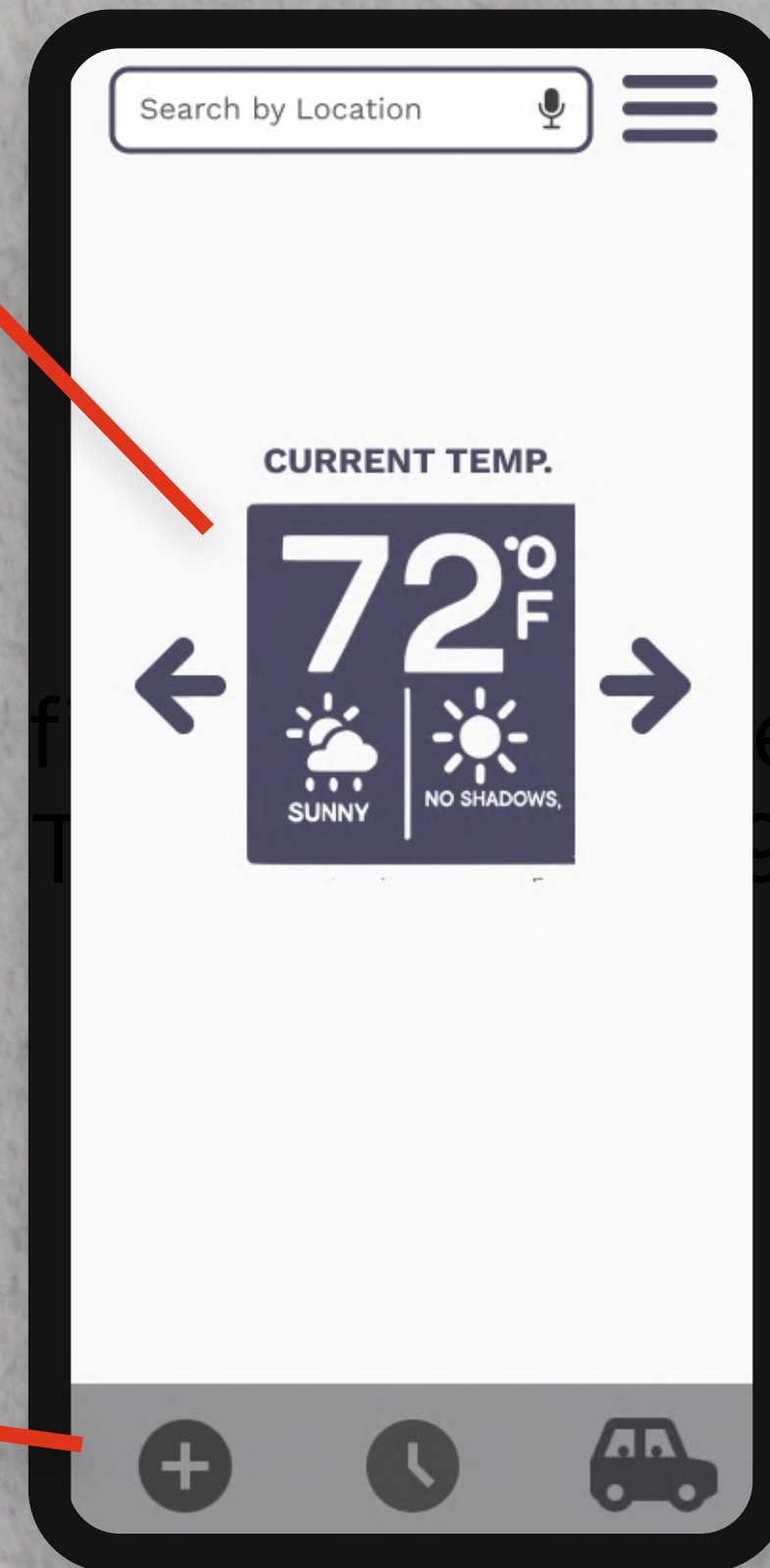
Accessibility

Data Integration



# High Fidelity Prototype Experience

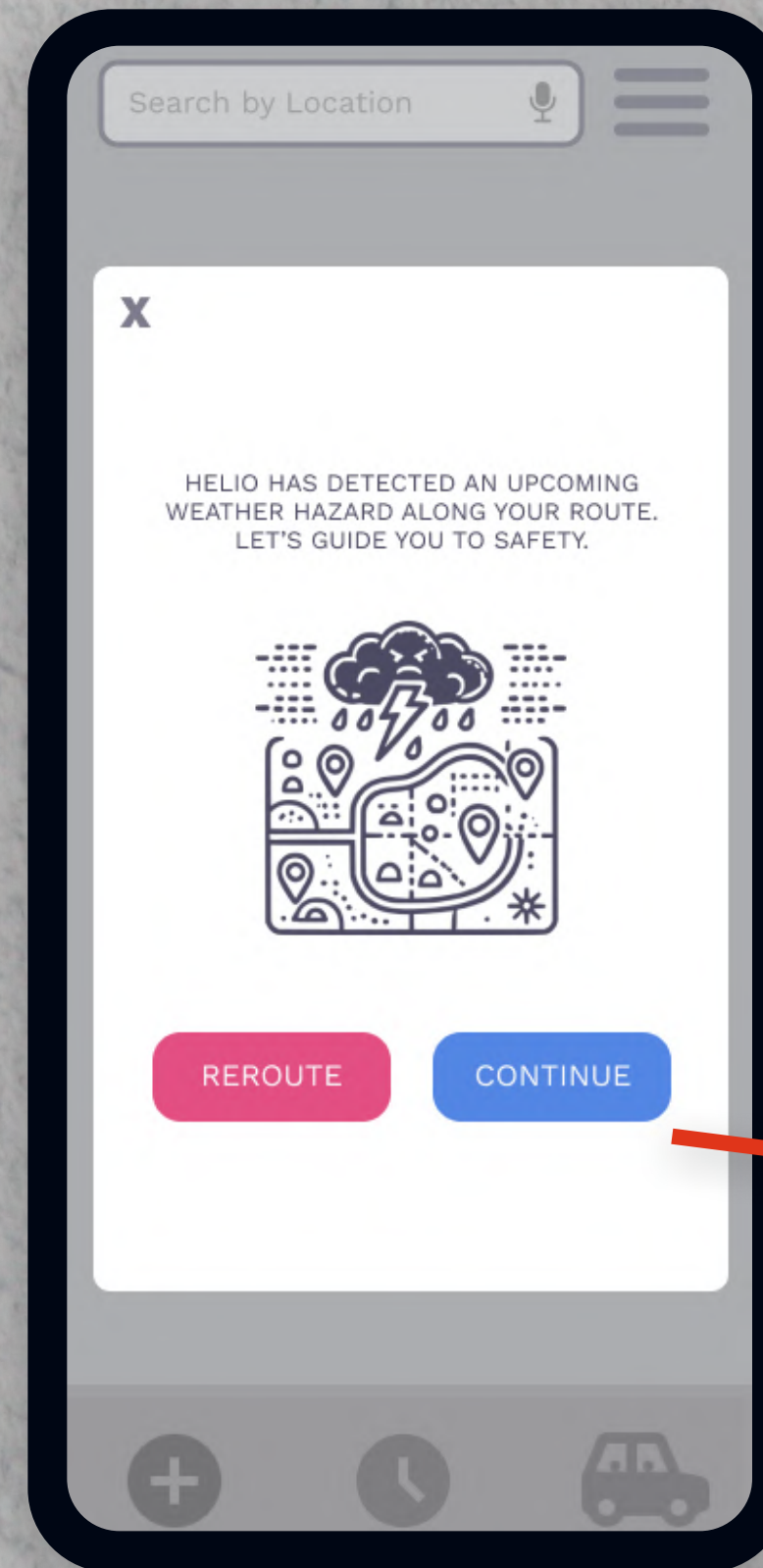
Home Screen



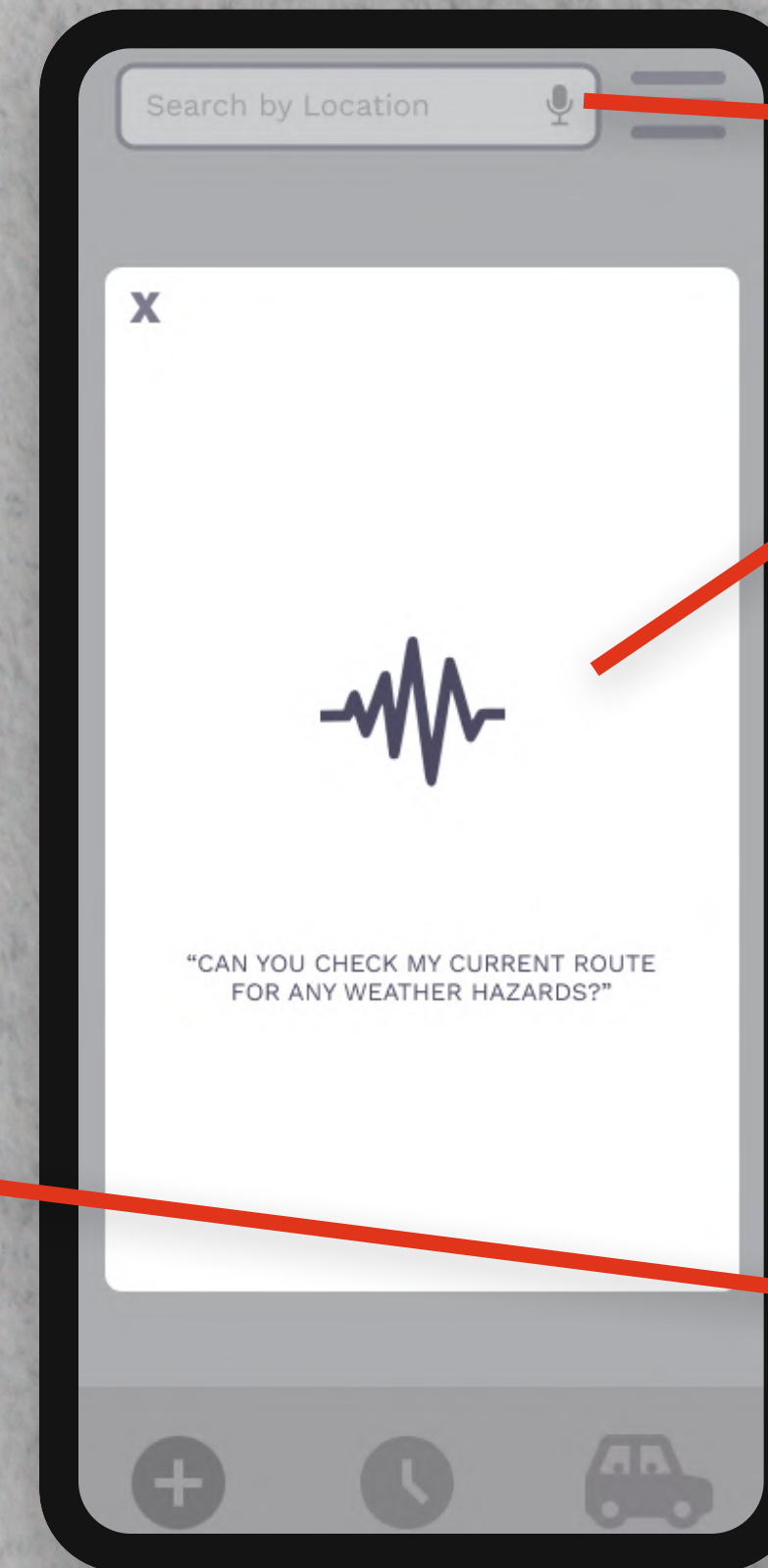
Much of the data included in the **Current Temp** tab was incorporated into a navigable carousel

The hidden drop-down menu was eliminated for a more practical icon based toolbar.

Realtime Warnings



Voice Commands



Voice commands were added via voice activation & search bar to instruct in realtime while driving

The 15-minute interval was introduced with animated graphics and more distinct button colors for usability

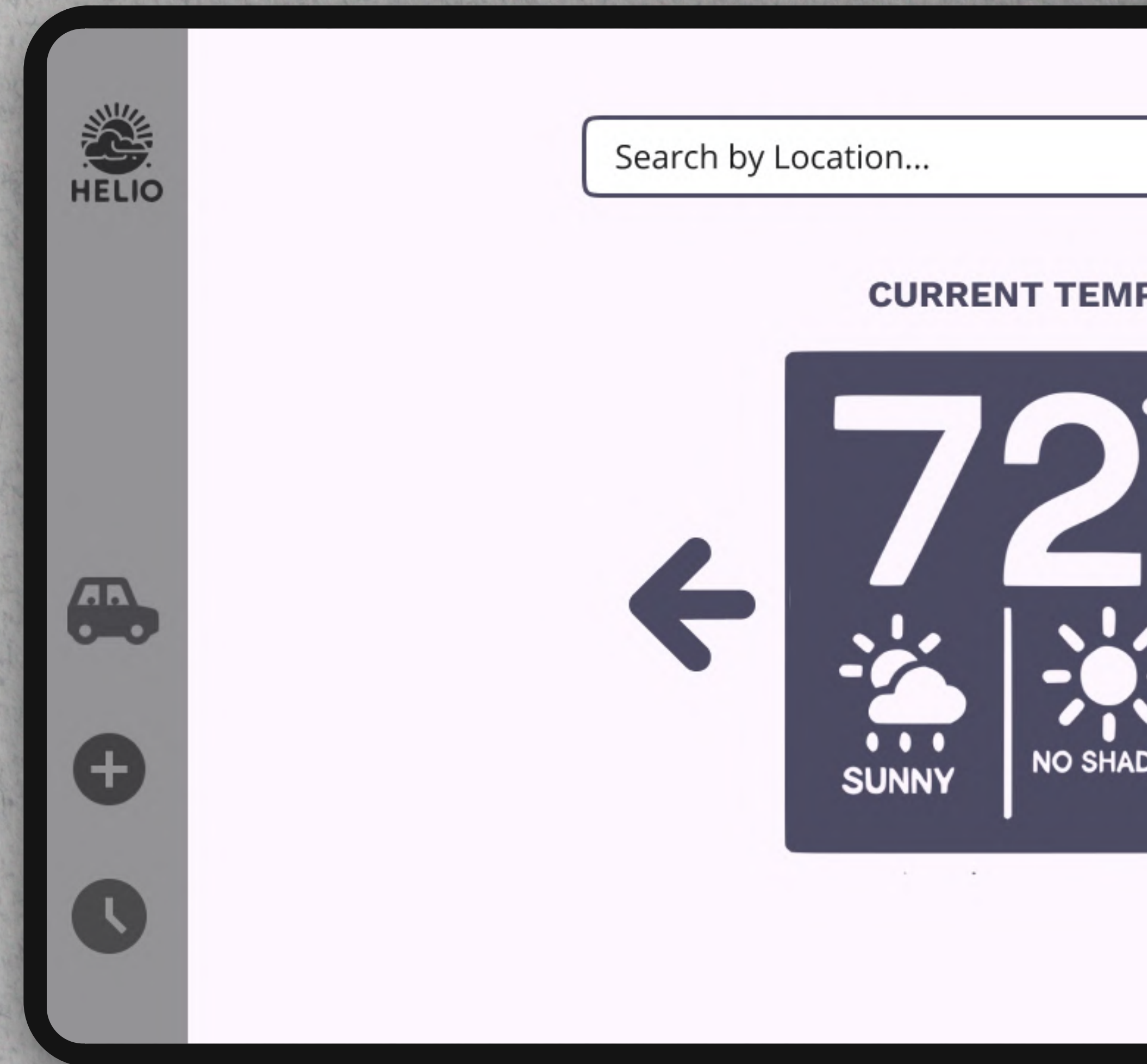


## Additional Formats

# Adaptive Desktop Version

The desktop version of the Helio Weather App expanded accessibility for professionals needing larger displays and better multitasking, syncing real-time data across mobile and desktop for

Additionally, the desktop version introduced a split-screen view, allowing users to see route forecasts alongside maps, addressing the need for streamlined multitasking without switching between apps.





# Solutions Implemented via Feedback

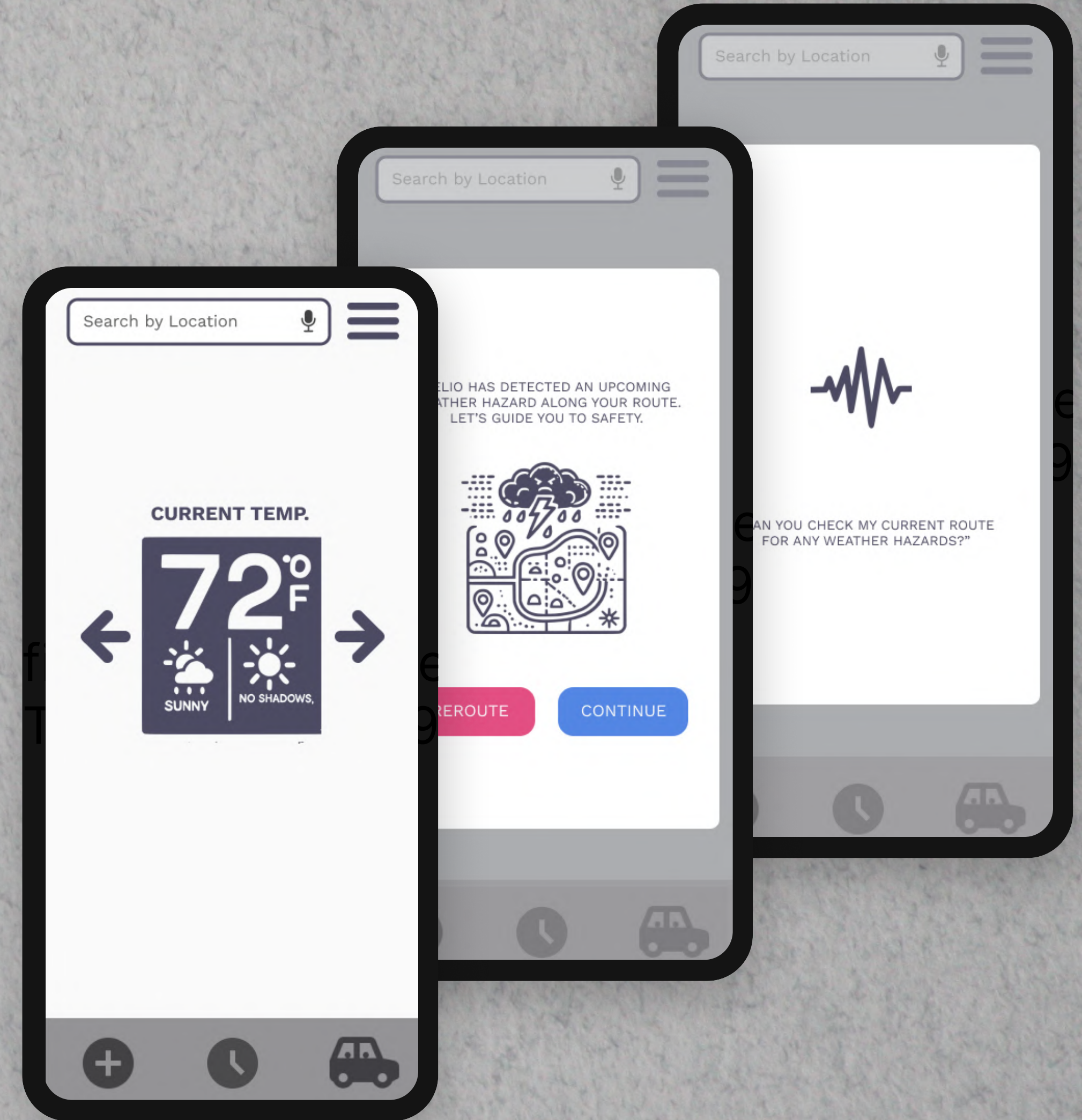
**Temperature Display:** Made the temperature more visible and clearly labeled.

**Scroll Bar Visibility:** Added visual cues and animations for the top scroll bar.

**Clearer Terminology:** Simplified confusing phrases with tooltips and explanations.

**Route Safety:** Made the route safety check more prominent and accessible.

**Alerts Setup:** Streamlined the process for enabling emergency alerts.





“  
Sign Up with Google, Apple, or Email

I need something that keeps me informed without overwhelming me  
—clear, simple, and fast.

– Gloria, IT Professional

Continue with Google

Sign-up with Email

☐ Enable location for accurate updates

A SAFER ROUTE HAS BEEN FOUND. SEND  
ROUTE TO MAPS?



SEND TO MAPS



Track your weather with precision.  
Stay informed, stay safe.

Search by Location

CURRENT TEMPERATURE

72°

SUNNY